PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT-167		FOR FURTHER	RACTION	See Form PCT/IPEA/416		
International application No. PCT/ES2004/070049		International filing of 09.07.2004	late (day/month/year)	Priority date (day/month/year) 11.07.2003		
International Patent Classification (IPC) or national classification and IPC C07C51/41						
,	Applicant NOREL, S.A. et al.					
1.	This report is the internat Authority under Article 35	ional preliminary examination and transmitted to the appl	on report, established by icant according to Article	this International Preliminary Examining e 36.		
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
3.	This report is also accompanied by ANNEXES, comprising:					
	a. sent to the applicant and to the International Bureau) a total of sheets, as follows:					
	 sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goe beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. 					
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4.	4. This report contains indications relating to the following items:					
	Box No. I Basis o	f the opinion				
	☐ Box No. II Priority					
	☐ Box No. III Non-es	tablishment of opinion with i	regard to novelty, invent	ive step and industrial applicability		
	☐ Box No. IV Lack of	unity of invention		•		
	☑ Box No. V Reasor applica	ed statement under Article bility; citations and explanat	35(2) with regard to nov ions supporting such sta	elty, inventive step or industrial atement		
	☐ Box No. VI Certain	documents cited				
	☐ Box No. VII Certain	defects in the international	application			
	☐ Box No. VIII Certain	observations on the interna	tional application			
Dat	te of submission of the demand		Date of completion of	f this report		
11.05.2005			14.09.2005			
Name and mailing address of the international			Authorized Officer	an Patra.		
preliminary examining authority: European Patent Office D-80298 Munich			Bertrand, F	Service Miles		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/ES2004/070049

	Box No. I	Basis of the report		
1.	With regard filed, unless	ith regard to the language , this report is based on the international application in the language in which it was led, unless otherwise indicated under this item.		
	which i: □ intei □ pub	port is based on translations from the original language into the following language, s the language of a translation furnished for the purposes of: rnational search (under Rules 12.3 and 23.1(b)) lication of the international application (under Rule 12.4) rnational preliminary examination (under Rules 55.2 and/or 55.3)		
2.	With regard to the elements* of the international application, this report is based on (replacement sheets whi have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):			
Description, Pages				
	1-62	as originally filed		
	Claims, Nun	nbers		
	1-52	as originally filed		
	□ a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing		
3.	The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):			
4.	had not bee Supplement the the the	port has been established as if (some of) the amendments annexed to this report and listed below en made, since they have been considered to go beyond the disclosure as filed, as indicated in the tal Box (Rule 70.2(c)). description, pages claims, Nos. drawings, sheets/figs sequence listing (specify): table(s) related to sequence listing (specify):		
	* Tf i+4	em 4 applies some or all of these shoots may be marked "surroused "		

INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

International application No. PCT/ES2004/070049

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims

4-5, 15, 17-52

No:

1-3,6-14,16

Inventive step (IS)

Yes: Claims

No: Claims 26-52 1-25

Industrial applicability (IA)

Yes: Claims

1-52

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/ES2004/070049

Re Item I Basis of the report

The documents mentioned herein are numbered in accordance with the order they appear in the International Search Report.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the present invention relates to organic Zn or Cu complexes with carboxylic acids and possibly with aminoates.

The preparation process according to the present claims 1-3, 6-14 and 16 is disclosed in D1, which therefore anticipates the present application. It should be noted that although some technical features, e.g. 1-5 minutes stirring according to the present claim 12 are not explicitly mentioned in D1, it can be reasonably assumed that these features were actually present in the prior art. If this was not the case, the applicant carries the burden of proof. Moreover, such a feature must contribute to the invention in order to be considered for a possible distinction over the prior art. In other words, a given feature must be different from the one used in the art and this difference must have a positive effect on the result. The other features of the remaining, new part of the present claims 1-16 do not appear to provide for any surprising effect, e.g. using butyrate instead of propionate or copper hydroxide instead of copper carbonate can be expected to yield the same result *mutatis mutandis*.

The cited prior art does not mention powdery Zn or Cu formate or butyrate with a given purity. Novelty of the present claims 17-20 is thus acknowledged. Novelty of the corresponding use claims 21-25 is also acknowledged. However, the alternative with respect to D1 is obvious as far as organic Zn is known to provide for an improved effect over inorganic Zn (see D6). The replacement of e.g. a propionate with a butyrate is a priori not expected to have dramatic consequences on growth. No surprising effect has been shown so far.

The applicant's attention is drawn to the fact that the way these powders are obtained is of no relevance. If anybody can prove that e.g. Cu formate powder of over 85% purity was available

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

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to the public before the relevant date, the novelty of the corresponding claim would be taken away.

The subject-matter of the present claims 26-52 is considered as new and involving an inventive step, since the cited prior art compares aminoates with carboxylates but does not mix them. Some of the experimental data of the present examples show that a better efficiency of metal absorption is achieved for a same amount of metallic salt when administered as a complex of carboxylate and aminoate in comparison with aminoates or carboxylates alone.